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OM protein - protein search, using sw model

Run on: March 13, 2003, 18:24:02 ; Search time 12.9705 Seconds

(Without alignments)
719.096 Million cell updates/sec

Title: US-09-865-363-13
Perfect score: 1685
Sequence: 1 MRRASRDYKYLRCSEMGCG.....LLDPDDATYFGAFKVRDID 317

Scoring table: BIOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :
1: /cgn2_6/ptodata/2/1aa/5A.COMB.pep.*
2: /cgn2_6/ptodata/2/1aa/5B.COMB.pep.*
3: /cgn2_6/ptodata/2/1aa/5A.COMB.pep.*
4: /cgn2_6/ptodata/2/1aa/5B.COMB.pep.*
5: /cgn2_6/ptodata/2/1aa/PTUS.COMB.pep.*
6: /cgn2_6/ptodata/2/1aa/backfiles1.pep.*

Pred. NO. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed.
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1685	100.0	317	3	US-08-996-139-13
2	1685	100.0	317	4	US-08-995-659-13
3	1685	100.0	317	4	US-09-215-649A-13
4	1685	100.0	317	4	US-09-052-521C-4
5	1685	100.0	317	4	US-09-577-780-13
6	1417.5	84.1	316	2	US-08-842-842-7
7	1417.5	84.1	316	4	US-08-989-302-2
8	1417.5	84.1	316	4	US-09-052-521C-2
9	1336.5	78.7	294	3	US-08-996-139-11
10	1336.5	78.7	294	4	US-08-995-659-11
11	1326.5	78.7	294	4	US-09-215-649A-11
12	1326.5	78.7	294	4	US-09-577-780-11
13	1251.5	14.9	279	4	US-08-072-993C-3
14	1251.5	14.9	281	1	US-08-670-354-2
15	1251.5	14.9	281	3	US-08-584-031-1
16	1251.5	14.9	281	3	US-08-780-496-1
17	1251.5	14.9	281	4	US-08-883-086-10
18	1251.5	14.9	281	4	US-09-320-424-2
19	1251.5	14.9	281	4	US-09-333-593A-6
20	1251.5	14.9	281	4	US-09-157-864-11
21	1251.5	14.9	281	5	PCT-US96-10895-2
22	1248	14.7	291	1	US-08-670-354-6
23	1248	14.7	291	4	US-09-320-424-6
24	1248	14.7	291	5	PCT-US96-10895-6
25	1236.5	14.0	253	4	US-09-320-424-11
26	1236.5	14.0	256	4	US-09-320-424-13
27	1231.5	13.7	177	4	US-09-105-343A-7

28	1226.5	13.4	183	4	US-09-105-343A-8	Sequence 8, Appl1
29	1189	11.2	281	2	US-08-810-453-2	Sequence 2, Appl1
30	1189	11.2	281	3	US-08-815-190A-2	Sequence 2, Appl1
31	1189	11.2	281	4	US-09-290-640-25	Sequence 25, Appl1
32	1189	11.2	281	4	US-09-479-524-3	Sequence 3, Appl1
33	1189	11.2	281	4	US-08-339-214-8	Sequence 8, Appl1
34	1189	11.2	281	4	US-08-339-214-30	Sequence 30, Appl1
35	1189	11.2	281	4	US-09-589-287B-6	Sequence 6, Appl1
36	1189	11.2	281	4	US-09-157-864-10	Sequence 10, Appl1
37	1189	11.2	281	4	US-09-006-755B-1	Sequence 1, Appl1
38	1189	11.2	281	5	PCT-US95-00362-2	Sequence 2, Appl1
39	184.5	10.9	279	4	US-08-339-214-24	Sequence 24, Appl1
40	184.5	10.9	279	4	US-08-339-214-32	Sequence 32, Appl1
41	184.5	10.9	279	5	PCT-US95-00362-5	Sequence 5, Appl1
42	175.5	10.4	278	4	US-08-339-214-16	Sequence 16, Appl1
43	175.5	10.4	278	4	US-08-339-214-26	Sequence 26, Appl1
44	164.5	9.8	376	3	US-08-751-512-8	Sequence 8, Appl1
45	158.5	9.4	261	1	US-07-940-605A-2	Sequence 2, Appl1

ALIGNMENTS

RESULT 1
US-08-996-139-13
Sequence 13, Application US/08996139
Patent No. 6017729
GENERAL INFORMATION:
APPLICANT: Anderson, Dirk M.
APPLICANT: Galibert, Laurent
APPLICANT: Maraskovsky, Eugene
TITLE OF INVENTION: Receptor Activator of NF-kappaB
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunex Corporation, Law Department
STREET: 51 University Street
CITY: Seattle
STATE: WA
COUNTRY: USA
ZIP: 98101
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Apple Power Macintosh
OPERATING SYSTEM: Apple Operating System 7.5.5
SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/996,139
FILING DATE: 22 DECEMBER 1997
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: USSN 60/064,671
FILING DATE: 14 OCTOBER 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: USSN 08/813,509
FILING DATE: 07 MARCH 1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: USSN 08/772,330
FILING DATE: 23 DECEMBER 1996
ATTORNEY/AGENT INFORMATION:
NAME: Peckins, Patricia Anne
REGISTRATION NUMBER: 34,693
REFERENCE/DOCKET NUMBER: 2851-A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206)587-0430
FAX: (206)233-0644
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 317 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-996-139-13

Query Match 100.0%; Score 1685; DB 3; Length 317;
 Best Local Similarity 100.0%; Pred. No. 1,4e-163;
 Matches 317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRASRDYTKLRGSEEGGPGAPHEGRLAAPPAPHPAPASRSFVALLGLGLOV 60
 DB 1 MRASRDYTKLRGSEEGGPGAPHEGRLAAPPAPHPAPASRSFVALLGLGLOV 60
 QY 61 VCSVALFFPFAQMDPNRISDGHCIYRLRLHENDFODTTLESODTKLIPSCRRIK 120
 DB 61 VCSVALFFPFAQMDPNRISDGHCIYRLRLHENDFODTTLESODTKLIPSCRRIK 120
 QY 121 QAFGAVOKELQHIIVGSOHIAEKAMVDGSLDLAKRSKLEAOPFAHLTINATDIPSGSH 180
 DB 121 QAFGAVOKELQHIIVGSOHIAEKAMVDGSLDLAKRSKLEAOPFAHLTINATDIPSGSH 180
 QY 181 KVSLSWYHDSGMAKISNMFPSNCKLIVNDGFYLLYANICFRHHETSGDLATEYLQMLV 240
 DB 181 KVSLSWYHDSGMAKISNMFPSNCKLIVNDGFYLLYANICFRHHETSGDLATEYLQMLV 240
 QY 241 VYTKTSIKIPSSHTLMKGSTKYWSGSEPHFYSINVGCFKLRSGEISIEVSNPSLLD 300
 DB 241 VYTKTSIKIPSSHTLMKGSTKYWSGSEPHFYSINVGCFKLRSGEISIEVSNPSLLD 300
 QY 301 PPDATYFGAFKVRDID 317
 DB 301 PPDATYFGAFKVRDID 317

RESULT 2
 US-08-995-659-13
 Sequence 13, Application US/08995659
 Patent No. 6242213
 GENERAL INFORMATION:
 APPLICANT: Anderson, Dirk M.
 APPLICANT: Galibert, Laurent
 APPLICANT: Maraskovsky, Eugene
 TITLE OF INVENTION: Ligand for Receptor Activator of NF-kappaB
 NUMBER OF SEQUENCES: 19
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Immunex Corporation, Law Department
 STREET: 51 University Street
 CITY: Seattle
 STATE: WA
 COUNTRY: USA
 ZIP: 98101
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: Apple Power Macintosh
 OPERATING SYSTEM: Apple Operating System 7.5.5
 SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/995,659
 FILING DATE: 22 DECEMBER 1997
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: USSN 60/064,671
 FILING DATE: 14 OCTOBER 1997
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: USSN 08/813,509
 FILING DATE: 07 MARCH 1997
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: USSN 08/772,330
 FILING DATE: 23 DECEMBER 1996
 CLASSIFICATION:
 ATTORNEY/AGENT INFORMATION:
 NAME: Perkins, Patricia Anne
 REGISTRATION NUMBER: 34,693
 REFERENCE/DOCKET NUMBER: 2852-A
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (206)587-0430

TELEFAX: (206)233-0644
 INFORMATION FOR SEQ ID NO: 13:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 317 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-995-659-13

Query Match 100.0%; Score 1685; DB 4; Length 317;
 Best Local Similarity 100.0%; Pred. No. 1,4e-163;
 Matches 317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRASRDYTKLRGSEEGGPGAPHEGRLAAPPAPHPAPASRSFVALLGLGLOV 60
 DB 1 MRASRDYTKLRGSEEGGPGAPHEGRLAAPPAPHPAPASRSFVALLGLGLOV 60
 QY 61 VCSVALFFPFAQMDPNRISDGHCIYRLRLHENDFODTTLESODTKLIPSCRRIK 120
 DB 61 VCSVALFFPFAQMDPNRISDGHCIYRLRLHENDFODTTLESODTKLIPSCRRIK 120
 QY 121 QAFGAVOKELQHIIVGSOHIAEKAMVDGSLDLAKRSKLEAOPFAHLTINATDIPSGSH 180
 DB 121 QAFGAVOKELQHIIVGSOHIAEKAMVDGSLDLAKRSKLEAOPFAHLTINATDIPSGSH 180
 QY 181 KVSLSWYHDSGMAKISNMFPSNCKLIVNDGFYLLYANICFRHHETSGDLATEYLQMLV 240
 DB 181 KVSLSWYHDSGMAKISNMFPSNCKLIVNDGFYLLYANICFRHHETSGDLATEYLQMLV 240
 QY 241 VYTKTSIKIPSSHTLMKGSTKYWSGSEPHFYSINVGCFKLRSGEISIEVSNPSLLD 300
 DB 241 VYTKTSIKIPSSHTLMKGSTKYWSGSEPHFYSINVGCFKLRSGEISIEVSNPSLLD 300
 QY 301 PPDATYFGAFKVRDID 317
 DB 301 PPDATYFGAFKVRDID 317

RESULT 3
 US-09-215-649A-13
 Sequence 13, Application US/09215649A
 Patent No. 6271349
 GENERAL INFORMATION:
 APPLICANT: Anderson, Dirk M.
 APPLICANT: Galibert, Laurent
 APPLICANT: Maraskovsky, Eugene
 TITLE OF INVENTION: Receptor Activator of NF-kappaB
 NUMBER OF SEQUENCES: 19
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Immunex Corporation, Law Department
 STREET: 51 University Street
 CITY: Seattle
 STATE: WA
 COUNTRY: USA
 ZIP: 98101
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: Apple Power Macintosh
 OPERATING SYSTEM: Apple Operating System 7.5.5
 SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/215,649A
 FILING DATE: 17-DEC-1998
 CLASSIFICATION: <Unknown>
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/996,139
 FILING DATE: <Unknown>
 APPLICATION NUMBER: USSN 08/813,509
 FILING DATE: 07 MARCH 1997
 APPLICATION NUMBER: USSN 08/772,330
 FILING DATE: 23 DECEMBER 1996
 ATTORNEY/AGENT INFORMATION:
 NAME: Perkins, Patricia Anne

REGISTRATION NUMBER: 34,693
REFERENCE/DOCKET NUMBER: 2851-A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206)587-0430
TELEFAX: (206)233-0644
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 317 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 13:
US-09-215-649A-13

Query Match 100.0%; Score 1685; DB 4; Length 317;
Best Local Similarity 100.0%; Pred. No. 1.4e-163;

Matches 317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 MRRASRDYTKYLGRSEMGCGCAPHEGFLHAPPPAPHPAPASRSMFVALLGLGLGV 60
DB 1 MRRASRDYTKYLGRSEMGCGCAPHEGFLHAPPPAPHPAPASRSMFVALLGLGLGV 60
OY 61 VCSVALFFYFRAQMDPNRISDGTHTCIYRILRLHENADFODTTLESQDTKLIPDSCRIR 120
DB 61 VCSVALFFYFRAQMDPNRISDGTHTCIYRILRLHENADFODTTLESQDTKLIPDSCRIR 120
OY 121 OAFQCAVOKELQHVGSOHIRAEKAMVDSWDLAKRSKLEQAPFAHLITNATDIPSGSH 180
DB 121 OAFQCAVOKELQHVGSOHIRAEKAMVDSWDLAKRSKLEQAPFAHLITNATDIPSGSH 180
OY 181 KVSLSWYHDSGMKISNMTFSNGKLIYNODGFYLYANICFRHHETSGDLATEYLQLMV 240
DB 181 KVSLSWYHDSGMKISNMTFSNGKLIYNODGFYLYANICFRHHETSGDLATEYLQLMV 240
OY 241 VYTKTSIKIPSSHTLMKGGSTKYWGSNPFHYISVNGGFPLRSGEISIEVSNPSLLD 300
DB 241 VYTKTSIKIPSSHTLMKGGSTKYWGSNPFHYISVNGGFPLRSGEISIEVSNPSLLD 300
OY 301 PDODATYFGAFKVRDID 317
DB 301 PDODATYFGAFKVRDID 317

RESULT 4
US-09-052-521C-4
Sequence 4, Application US/09052521C
Patent No. 6316408
GENERAL INFORMATION:
APPLICANT: Boyle, William J.
TITLE OF INVENTION: Osteoprotegerin Binding Proteins and Receptors
FILE REFERENCE: A-451brv
CURRENT APPLICATION NUMBER: US/09/052,521C
CURRENT FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 08/880,855
PRIOR FILING DATE: 1997-06-23
PRIOR APPLICATION NUMBER: 08/842,842
PRIOR FILING DATE: 1997-04-16
NUMBER OF SEQ ID NOS: 40
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 4
LENGTH: 317
TYPE: PRT
ORGANISM: Human
US-09-052-521C-4

Query Match 100.0%; Score 1685; DB 4; Length 317;
Best Local Similarity 100.0%; Pred. No. 1.4e-163;

Matches 317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 MRRASRDYTKYLGRSEMGCGCAPHEGFLHAPPPAPHPAPASRSMFVALLGLGLGV 60
DB 1 MRRASRDYTKYLGRSEMGCGCAPHEGFLHAPPPAPHPAPASRSMFVALLGLGLGV 60

OY 61 VCSVALFFYFRAQMDPNRISDGTHTCIYRILRLHENADFODTTLESQDTKLIPDSCRIR 120
DB 61 VCSVALFFYFRAQMDPNRISDGTHTCIYRILRLHENADFODTTLESQDTKLIPDSCRIR 120
OY 121 OAFQCAVOKELQHVGSOHIRAEKAMVDSWDLAKRSKLEQAPFAHLITNATDIPSGSH 180
DB 121 OAFQCAVOKELQHVGSOHIRAEKAMVDSWDLAKRSKLEQAPFAHLITNATDIPSGSH 180
OY 181 KVSLSWYHDSGMKISNMTFSNGKLIYNODGFYLYANICFRHHETSGDLATEYLQLMV 240
DB 181 KVSLSWYHDSGMKISNMTFSNGKLIYNODGFYLYANICFRHHETSGDLATEYLQLMV 240
OY 241 VYTKTSIKIPSSHTLMKGGSTKYWGSNPFHYISVNGGFPLRSGEISIEVSNPSLLD 300
DB 241 VYTKTSIKIPSSHTLMKGGSTKYWGSNPFHYISVNGGFPLRSGEISIEVSNPSLLD 300
OY 301 PDODATYFGAFKVRDID 317
DB 301 PDODATYFGAFKVRDID 317

RESULT 5

US-09-577-780-13
Sequence 13, Application US/09577780
Patent No. 6419929

GENERAL INFORMATION:

APPLICANT: Anderson, Dirk M.

Gilbert, Laurent

Markovsky, Eugene

TITLE OF INVENTION: Ligand for Receptor Activator of NF-kappaB

NUMBER OF SEQUENCES: 19

CORRESPONDENCE ADDRESS:

ADDRESSEE: Immunex Corporation, Law Department

STREET: 51 University Street

CITY: Seattle

STATE: WA

COUNTRY: USA

ZIP: 98101

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: Apple Power Macintosh

OPERATING SYSTEM: Apple Operating System 7.5.5

SOFTWARE: Microsoft Word for Power Macintosh 6.0.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/577,780

FILING DATE: 24-May-2000

CLASSIFICATION: <unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/995,659

FILING DATE: <unknown>

APPLICATION NUMBER: USSN 08/813,509

FILING DATE: 07 MARCH 1997

APPLICATION NUMBER: USSN 08/772,330

FILING DATE: 23 DECEMBER 1996

ATTORNEY/AGENT INFORMATION:

NAME: Perkins, Patricia Anne

REGISTRATION NUMBER: 34,693

REFERENCE/DOCKET NUMBER: 2851-A

TELECOMMUNICATION INFORMATION:

TELEPHONE: (206)587-0430

TELEFAX: (206)233-0644

INFORMATION FOR SEQ ID NO: 13:

SEQUENCE CHARACTERISTICS:

LENGTH: 317 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

SEQUENCE DESCRIPTION: SEQ ID NO: 13:

US-09-577-780-13

Query Match 100.0%; Score 1685; DB 4; Length 317;
Best Local Similarity 100.0%; Pred. No. 1.4e-163;

Matches 317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy	1	MRSRODTXKLRSESEKGGPGARPHGCPRLHAPPPAPRHOPPPASRSMFALLGLGGOV	60
Db	1	MRRASRDXTKLRGSEKGGPGARPHGCPRLHAPPPAPRHOPPPASRSMFALLGLGGOV	60
Oy	61	VCSSALFFFYFRAADPNRI SEDGTHCIYRLRLHENDFODTTLLESODTKLIPDSCRIRK	120
Db	61	VCSSALFFFYFRAADPNRI SEDGTHCIYRLRLHENDFODTTLLESODTKLIPDSCRIRK	120
Oy	121	QAFGCAVOKELQHHVGSQHIHAEKAMVDGSLDLAKRSKLEAOPFAILITNADIPGSH	180
Db	121	QAFGCAVOKELQHHVGSQHIHAEKAMVDGSLDLAKRSKLEAOPFAILITNADIPGSH	180
Oy	121	QAFGCAVOKELQHHVGSQHIHAEKAMVDGSLDLAKRSKLEAOPFAILITNADIPGSH	180
Db	121	QAFGCAVOKELQHHVGSQHIHAEKAMVDGSLDLAKRSKLEAOPFAILITNADIPGSH	180
Oy	181	KVSLSSWYHDRGMAKISNMFTFSNCKLJVNDGFYLYVANICEFRHHETSGDLATEYLQMV	240
Db	181	KVSLSSWYHDRGMAKISNMFTFSNCKLJVNDGFYLYVANICEFRHHETSGDLATEYLQMV	240
Oy	241	YVTTTSTIKTIPRSHLTMKGSTKRYKGSASEPHFYSIYNVGFPFKLSGGEISIEVSNPSLLD	300
Db	241	YVTTTSTIKTIPRSHLTMKGSTKRYKGSASEPHFYSIYNVGFPFKLSGGEISIEVSNPSLLD	300
Oy	301	PDODATYFGAFKRVDDID 317	
Db	301	PDODATYFGAFKRVDDID 317	

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RESULT 6
US-08-842-842-7
: Sequence 7, Application US/08842842
: Patent No. 5843678
: GENERAL INFORMATION:
: APPLICANT: Boyle, William J.
: TITLE OF INVENTION: OSTEOPROTEGERIN BINDING PROTEINS
: NUMBER OF SEQUENCES: 7
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Amgen Inc.
: STREET: 1840 Bayhill Drive
: CITY: Thousand Oaks
: STATE: California
: COUNTRY: USA
: ZIP: 91320-1789
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: OPERATING SYSTEM: IBM PC compatible
: SOFTWARE: Patent Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/842,842
: FILING DATE:
: CLASSIFICATION: 435
: ATTORNEY/AGENT INFORMATION:
: NAME: Winter, Robert B.
: REFERENCE/DOCKET NUMBER: A-451
: INFORMATION FOR SEQ ID NO: 7:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 316 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: protein
US-08-842-842-7

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Query Match	84.1%	Score 1417.5	DB 2	Length 316
Best Local Similarly	84.3%	Prod. No. 2.0e-136		
Matches 268	16	Mismatches 31	Indels 3	Gaps 2

0y 1 MRASRDVTKTKLRSEEMGGCPAPNHCPLH -APPAPPAQPPAASNSMVALLGGLGQ 59
 1 MRASRDVTKTKLRSEEMGGCPAPNHCPLH -APPAPPAQPPAASNSMVALLGGLGQ 60
 1 MRASRDVTKTKLRSEEMGGCPAPNHCPLH -APPAPPAQPPAASNSMVALLGGLGQ 60
 0y 60 VCSVALEFYEYRAQMDPNRISSEDCNHCIVYRLRLHENADPDTTLESODPKLIPDCSRI 119
 61 VCSVALEFYEYRAQMDPNRISSEDCNHCIVYRLRLHENADPDTTLESODPKLIPDCSRI 118
 11b 61 VCSVALEFYEYRAQMDPNRISSEDCNHCIVYRLRLHENADPDTTLESODPKLIPDCSRI 118

Qy	120	KOROGANOKLELOHIVCSQHI	RAEKAVVDGSMIDLARKSKLEOPF	PHLITINATDIPSGS	179
Db	119	KOAFQGAQOKLELOHIVG	FRSGAPAMMEGSMIDLVAORGK	PEAOPFPHLITINMAISIPSGS	178
Oy	180	HKVSLSWSYHDBRGNAKIS	NMFPSNGKLIYNODGFFYYU	YLANICFRHHETSGDLATEYUOLM	239
Db	179	HKVTLSSMYHDBRGNAKIS	NMTLSNGKLIYNODGFFYYU	LANICFRHHETSGSVPRDPIUOLM	238
Oy	240	VYVYTKTSIKIIPSSHT	LMMKGGSTKYWSONSEFH	FPYISVNGGFPKLRSGEETIS	1EYVNSPDL 299
Db	239	VYVYKTSIKIIPSSHLM	KMGSGSTKMMSGSEFH	FPYISVNGGFPKLRSAGEETIS	IOYVNSPDL 298
Oy	300	DPDODATYFGAFKYYR	DDID 317		
Db	299	DPDODATYFGAFKVV	ODID 316		

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US-08-989-362-2
: Sequence 2, Application US/08989362
: Patent No. 6242586
: GENERAL INFORMATION:
: APPLICANT: Gorman, Daniel M.
: APPLICANT: Mattson, Jeanine D.
: TITLE OF INVENTION: Mammalian Cell Surface Antigens; Related
: TITLE OF INVENTION: Reagents
: NUMBER OF SEQUENCES: 2
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: DMAX Research Institute
: STREET: 901 California Avenue
: CITY: Palo Alto
: STATE: California
: COUNTRY: USA
: ZIP: 94304-1104
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentin Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/989,362
: FILING DATE: 12-DEC-1997
: CLASSIFICATION: 56
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 60/032,846
: FILING DATE: 13-DEC-1996
: ATTORNEY/AGENT INFORMATION:
: NAME: Ching, Edwin P.
: REGISTRATION NUMBER: 34,090
: REFERENCE/DOCKET NUMBER: DX0686
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (650)852-9196
: TELEFAX: (650)496-1204
: INFORMATION FOR SEQ ID NO: 2:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 316 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: protein
US-08-989-362-2

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Query Match	84.18:	Score 1417.5:	DB 4:	Length 316:
Best Local Similarity	84.3%:	Pred. No. 2.6e-156:		
Matches 268: Conservative	16:	Mismatches 31:	Indels 3:	Gaps 2:

[illegible]


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COMPUTER: Apple Macintosh
OPERATING SYSTEM: Apple 7.5.2
SOFTWARE: Microsoft Word, Version 6.0.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/670.354
FILING DATE: 25-JUN-1996
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/496,632
FILING DATE: 29-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/548,368
FILING DATE: 01-NOV-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Anderson, Kathryn A.
REGISTRATION NUMBER: 32,172
REFERENCE/DOCKET NUMBER: 2835-B
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 587-0430
TELEFAX: (206) 233-0644
TELEX: 756822
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 281 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-670-354-2

```

Query Match 14.9%: Score 251.5; DB 1: Length 281;

Best Local Similarity 24.1%: Pred. No. 1.6e-17;

Matches 71: Conservative 61; Mismatches 117; Indels 45; Gaps 10;

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OY 42 PAASRSMFVALLGLGGOVCSVALFFFRAMD--PNRISEDTGTCIYRIILRLHENDF 99
   1 : : : : : 1 : : : : : 1 : : : : : 1 : : : : : 1 : : : : :
Db 10 PSLGOTCVLIVFTVLQSLCAVAVTYVFTNLRKQMDKYSKGIACF-----LKED--- 61

OY 100 ODTTLESODTKLIPDSCRIRKQAFQAVOKELQHYVSOHIFRAKAMVDGSHLDLAKRSK 159
   1 : : : : : 1 : : : : : 1 : : : : : 1 : : : : : 1 : : : : :
Db 62 -DSYMDPNDEESMNSPCWQVKW-----QLRLQVLRKMLLTSEETI-----STVOEKO 107

OY 160 LEAOPF-----AHLT-----INATDIPSGSHKVSLS--SSMYHDR-GMAKISNM 199
   1 : : : : : 1 : : : : : 1 : : : : : 1 : : : : : 1 : : : : :
Db 108 QNISPLVREGRFORVAHAHITGTRGRSNTLSSPNSKNEKALGRKINSMESSRSCHSFLSNL 167

OY 200 TFSNGKLIYNODGFYLLVNICFRNHETSGDLATEYLQLMVYVTKTSIKIPSSHTLMKGG 259
   1 : : : : : 1 : : : : : 1 : : : : : 1 : : : : : 1 : : : : :
Db 168 HLRNGELVHEKGFYIYSQTFRFOEIKENTKNDKQWQYIYKYT-SYDPDILMKSA 226

OY 260 STKYWGNSERHFYISINWCGFFKLRSGEELSTEVSNPSLDDPDODATYFGAFKV 313
   1 : : : : : 1 : : : : : 1 : : : : : 1 : : : : : 1 : : : : :
Db 227 RNSCWSKDAEYGLYSIYOGIFELKENDRIFVSVTNEHLIDMDHEASFGAFVLV 280

```

RESULT 15

US-08-584-031-1

Sequence 1, Application US/08584031A

Patent No. 6030945

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.

TITLE OF INVENTION: APO-2 LIGAND

FILE REFERENCE: 11669.22US03

CURRENT APPLICATION NUMBER: US/08/584,031A

CURRENT FILING DATE: 1996-01-09

NUMBER OF SEQ ID NOS: 17

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 1

LENGTH: 281

TYPE: PRT

ORGANISM: Homo sapiens

US-08-584-031-1

Query Match 14.9%: Score 251.5; DB 3: Length 281;

Best Local Similarity 24.1%: Pred. No. 1.6e-17;

Matches 71: Conservative 61; Mismatches 117; Indels 45; Gaps 10;

```

OY 42 PAASRSMFVALLGLGGOVCSVALFFFRAMD--PNRISEDTGTCIYRIILRLHENDF 99
   1 : : : : : 1 : : : : : 1 : : : : : 1 : : : : : 1 : : : : :
Db 10 PSLGOTCVLIVFTVLQSLCAVAVTYVFTNLRKQMDKYSKGIACF-----LKED--- 61

OY 100 ODTTLESODTKLIPDSCRIRKQAFQAVOKELQHYVSOHIFRAKAMVDGSHLDLAKRSK 159
   1 : : : : : 1 : : : : : 1 : : : : : 1 : : : : : 1 : : : : :
Db 62 -DSYMDPNDEESMNSPCWQVKW-----QLRLQVLRKMLLTSEETI-----STVOEKO 107

OY 160 LEAOPF-----AHLT-----INATDIPSGSHKVSLS--SSMYHDR-GMAKISNM 199
   1 : : : : : 1 : : : : : 1 : : : : : 1 : : : : : 1 : : : : :
Db 108 QNISPLVREGRFORVAHAHITGTRGRSNTLSSPNSKNEKALGRKINSMESSRSCHSFLSNL 167

OY 200 TFSNGKLIYNODGFYLLVNICFRNHETSGDLATEYLQLMVYVTKTSIKIPSSHTLMKGG 259
   1 : : : : : 1 : : : : : 1 : : : : : 1 : : : : : 1 : : : : :
Db 168 HLRNGELVHEKGFYIYSQTFRFOEIKENTKNDKQWQYIYKYT-SYDPDILMKSA 226

OY 260 STKYWGNSERHFYISINWCGFFKLRSGEELSTEVSNPSLDDPDODATYFGAFKV 313
   1 : : : : : 1 : : : : : 1 : : : : : 1 : : : : : 1 : : : : :
Db 227 RNSCWSKDAEYGLYSIYOGIFELKENDRIFVSVTNEHLIDMDHEASFGAFVLV 280

```

Search completed: March 13, 2003, 18:25:57

Job time : 13.9705 secs

GenCore version 5.1.4_p5.4578
Copyright (c) 1993 - 2003 Compugen Ltd.

OM protein - protein search, using sw model

Run on: March 13, 2003, 18:24:22 : Search time 146.308 Seconds

(without alignments)
1396.922 Million cell updates/sec

Title: US-09-865-363-13

Perfect score: 1685

Sequence: 1 MRRASRDYTKYLKGSEEMGC.....LLDPDQATYFGAFKVRDID 317

Scoring table: HUCSUM62

Gapop 10.0, Gapext 0.5

Searched: 4569144 seqs, 644733110 residues

Total number of hits satisfying chosen parameters: 4569144

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

1: /cgn2_6/ptodata/2/paa/US012.COMB.pep.*
2: /cgn2_6/ptodata/2/paa/US06.COMB.pep.*
3: /cgn2_6/ptodata/2/paa/US07.COMB.pep.*
4: /cgn2_6/ptodata/2/paa/US08.COMB.pep.*
5: /cgn2_6/ptodata/2/paa/US081.COMB.pep.*
6: /cgn2_6/ptodata/2/paa/US082.COMB.pep.*
7: /cgn2_6/ptodata/2/paa/US083.COMB.pep.*
8: /cgn2_6/ptodata/2/paa/US084.COMB.pep.*
9: /cgn2_6/ptodata/2/paa/US085.COMB.pep.*
10: /cgn2_6/ptodata/2/paa/US086.COMB.pep.*
11: /cgn2_6/ptodata/2/paa/US087.COMB.pep.*
12: /cgn2_6/ptodata/2/paa/US088.COMB.pep.*
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20: /cgn2_6/ptodata/2/paa/US096.COMB.pep.*
21: /cgn2_6/ptodata/2/paa/US097.COMB.pep.*
22: /cgn2_6/ptodata/2/paa/US098.COMB.pep.*
23: /cgn2_6/ptodata/2/paa/US099.COMB.pep.*
24: /cgn2_6/ptodata/2/paa/US100.COMB.pep.*
25: /cgn2_6/ptodata/2/paa/US101.COMB.pep.*
26: /cgn2_6/ptodata/2/paa/US102.COMB.pep.*
27: /cgn2_6/ptodata/2/paa/US60.COMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1685	100.0	317	1	PCT-US01-26101-2
2	1685	100.0	317	1	PCT-US02-16002-10
3	1685	100.0	317	1	PCT-US02-23782-22
4	1685	100.0	317	1	PCT-US02-23809-22
5	1685	100.0	317	1	PCT-US98-07584-4
6	1685	100.0	317	12	US-08-880-855-39

7	1685	100.0	317	16	US-09-202-455-11	Sequence 11, Appl
8	1685	100.0	317	17	US-09-396-937-2	Sequence 2, Appl
9	1685	100.0	317	18	US-09-442-029A-13	Sequence 13, Appl
10	1685	100.0	317	18	US-09-466-496-13	Sequence 13, Appl
11	1685	100.0	317	19	US-09-577-800-13	Sequence 13, Appl
12	1685	100.0	317	20	US-09-687-809-13	Sequence 13, Appl
13	1685	100.0	317	20	US-09-688-459-13	Sequence 13, Appl
14	1685	100.0	317	21	US-09-705-985-8	Sequence 8, Appl
15	1685	100.0	317	21	US-09-787-126-2	Sequence 2, Appl
16	1685	100.0	317	21	US-09-791-537-7	Sequence 141193,
17	1685	100.0	317	22	US-09-813-329-7	Sequence 7, Appl
18	1685	100.0	317	22	US-09-865-363-13	Sequence 13, Appl
19	1685	100.0	317	22	US-09-871-291-13	Sequence 13, Appl
20	1685	100.0	317	22	US-09-871-956-13	Sequence 13, Appl
21	1685	100.0	317	22	US-09-877-550-13	Sequence 6, Appl
22	1685	100.0	317	23	US-09-957-944-6	Sequence 10, Appl
23	1685	100.0	317	25	US-10-151-071-10	Sequence 11, Appl
24	1685	100.0	317	25	US-10-167-182-11	Sequence 22, Appl
25	1685	100.0	317	26	US-10-202-062-22	Sequence 8, Appl
26	1685	100.0	317	26	US-10-218-547-22	Sequence 16, Appl
27	1424.5	84.5	316	23	US-09-957-944-8	Sequence 2, Appl
28	1417.5	84.1	316	1	PCT-US01-26101-16	Sequence 2, Appl
29	1417.5	84.1	316	1	PCT-US02-09271-2	Sequence 37, Appl
30	1417.5	84.1	316	1	PCT-US98-07584-2	Sequence 4, Appl
31	1417.5	84.1	316	12	US-08-880-855-37	Sequence 4, Appl
32	1417.5	84.1	316	13	US-08-989-479-4	Sequence 7, Appl
33	1417.5	84.1	316	14	US-09-034-099-4	Sequence 7, Appl
34	1417.5	84.1	316	14	US-09-079-088A-7	Sequence 7, Appl
35	1417.5	84.1	316	14	US-09-079-088A-7	Sequence 7, Appl
36	1417.5	84.1	316	14	US-09-079-569-7	Sequence 4, Appl
37	1417.5	84.1	316	14	US-09-096-751-4	Sequence 1, Appl
38	1417.5	84.1	316	16	US-09-202-455-1	Sequence 4, Appl
39	1417.5	84.1	316	16	US-09-210-115-4	Sequence 7, Appl
40	1417.5	84.1	316	17	US-09-305-344A-7	Sequence 4, Appl
41	1417.5	84.1	316	17	US-09-386-937-4	Sequence 6, Appl
42	1417.5	84.1	316	17	US-09-396-937-6	Sequence 2, Appl
43	1417.5	84.1	316	18	US-09-447-035-4	Sequence 4, Appl
44	1417.5	84.1	316	20	US-09-671-658A-2	Sequence 4, Appl
45	1417.5	84.1	316	21	US-09-787-126-4	Sequence 4, Appl

ALIGNMENTS

RESULT 1
PCT-US01-26101-2
: Sequence 2, Application PCT/US0126101
: GENERAL INFORMATION:
: APPLICANT: University of Massachusetts Medical Center
: TITLE OF INVENTION: TRANCE REGULATION OF CHONDROCYTE DIFFERENTIATION
: FILE REFERENCE: 07917-120MO1
: CURRENT APPLICATION NUMBER: PCT/US01/26101
: CURRENT FILING DATE: 2001-08-20
: PRIOR APPLICATION NUMBER: US/60/226,197
: PRIOR FILING DATE: 2000-08-18
: NUMBER OF SEQ ID NOS: 19
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 2
: LENGTH: 317
: TYPE: PRT
: ORGANISM: Homo sapiens
PCT-US01-26101-2

Query Match 100.0%; Score 1685; DB 1; Length 317;
Best Local Similarity 100.0%; Pred. No. 4.3e-152;
Matches 317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 MRRASRDYTKYLKGSEEMGCGAPHEGLAAPPAPHPAPPAASRSMFVALLGLGLOV 60
DB 1 MRRASRDYTKYLKGSEEMGCGAPHEGLAAPPAPHPAPPAASRSMFVALLGLGLOV 60
OY 61 VCSVALFFYFRAQMDPNRISDEGTHCIYRILRLHENAADFDTTLESODTKLIPDSGRATK 120


```

OY 61 VCSVALFFYFRAQMDPNRI SEDGTHCIYRILRLHENADFODTTLESODTKLIPDSCRRIK 120
DB 61 VCSVALFFYFRAQMDPNRI SEDGTHCIYRILRLHENADFODTTLESODTKLIPDSCRRIK 120
OY 121 QAFQAVOKELQIHIVGSOHIRAEKAMVDGSMIDLAKRSKLEAOPFAHLITINATDIPSGSH 180
DB 121 QAFQAVOKELQIHIVGSOHIRAEKAMVDGSMIDLAKRSKLEAOPFAHLITINATDIPSGSH 180
OY 181 KVSLSWYHRCMAKISNMFTFSGNGLIYNODGFYLLYANICFRHHETSGDLATEYLQLMV 240
DB 181 KVSLSWYHRCMAKISNMFTFSGNGLIYNODGFYLLYANICFRHHETSGDLATEYLQLMV 240
OY 241 VYTKTSIKIPSSHTLMKGGSTKYWGSNSEFHFYSINVGFFKLRSGEETISIEVSNPSLLD 300
DB 241 VYTKTSIKIPSSHTLMKGGSTKYWGSNSEFHFYSINVGFFKLRSGEETISIEVSNPSLLD 300
OY 301 PPODATYFGAFKVRDID 317
DB 301 PPODATYFGAFKVRDID 317

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RESULT 5

PCT-US98-07584-4
Sequence 4, Application PC/TUS9807584

```

GENERAL INFORMATION:
APPLICANT: Amgen Inc.
TITLE OF INVENTION: OSTEOPROTEGERIN BINDING PROTEINS AND
NUMBER OF SEQUENCES: 40
CORRESPONDENCE ADDRESS:
ADDRESSEE: Amgen Inc.
STREET: One Amgen Center Drive
CITY: Thousand Oaks
STATE: California
COUNTRY: USA
ZIP: 91320-1789
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US98/07584
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Winter, Robert B.
REFERENCE/DOCKET NUMBER: A-451B
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 317 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
PCT-US98-07584-4

```

Query Match 100.0%; Score 1685; DB 1; Length 317;

Best Local Similarity 100.0%; Pred. No. 4.3e-152; Matches 317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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OY 1 MRRASRDYTKYLRGSEEMGGPGAPHEGPHLHAPPAPHPAPPAASRSMFVALLGLGLGV 60
DB 1 MRRASRDYTKYLRGSEEMGGPGAPHEGPHLHAPPAPHPAPPAASRSMFVALLGLGLGV 60
OY 61 VCSVALFFYFRAQMDPNRI SEDGTHCIYRILRLHENADFODTTLESODTKLIPDSCRRIK 120
DB 61 VCSVALFFYFRAQMDPNRI SEDGTHCIYRILRLHENADFODTTLESODTKLIPDSCRRIK 120
OY 121 QAFQAVOKELQIHIVGSOHIRAEKAMVDGSMIDLAKRSKLEAOPFAHLITINATDIPSGSH 180
DB 121 QAFQAVOKELQIHIVGSOHIRAEKAMVDGSMIDLAKRSKLEAOPFAHLITINATDIPSGSH 180
OY 181 KVSLSWYHRCMAKISNMFTFSGNGLIYNODGFYLLYANICFRHHETSGDLATEYLQLMV 240
DB 181 KVSLSWYHRCMAKISNMFTFSGNGLIYNODGFYLLYANICFRHHETSGDLATEYLQLMV 240
OY 241 VYTKTSIKIPSSHTLMKGGSTKYWGSNSEFHFYSINVGFFKLRSGEETISIEVSNPSLLD 300
DB 241 VYTKTSIKIPSSHTLMKGGSTKYWGSNSEFHFYSINVGFFKLRSGEETISIEVSNPSLLD 300
OY 301 PPODATYFGAFKVRDID 317
DB 301 PPODATYFGAFKVRDID 317

```

```

OY 181 KVSLSWYHRCMAKISNMFTFSGNGLIYNODGFYLLYANICFRHHETSGDLATEYLQLMV 240
DB 181 KVSLSWYHRCMAKISNMFTFSGNGLIYNODGFYLLYANICFRHHETSGDLATEYLQLMV 240
OY 241 VYTKTSIKIPSSHTLMKGGSTKYWGSNSEFHFYSINVGFFKLRSGEETISIEVSNPSLLD 300
DB 241 VYTKTSIKIPSSHTLMKGGSTKYWGSNSEFHFYSINVGFFKLRSGEETISIEVSNPSLLD 300
OY 301 PPODATYFGAFKVRDID 317
DB 301 PPODATYFGAFKVRDID 317

```

RESULT 6

US-08-880-855-39
Sequence 39, Application US/08880855

```

GENERAL INFORMATION:
APPLICANT: Boyle, William J.
TITLE OF INVENTION: Osteoprotegerin Binding Proteins
NUMBER OF SEQUENCES: 39
CORRESPONDENCE ADDRESS:
ADDRESSEE: Amgen Inc.
STREET: One Amgen Center Drive
CITY: Thousand Oaks
STATE: California
COUNTRY: USA
ZIP: 91320-1789
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US-08/880,855
FILING DATE:
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Winter, Robert B.
REFERENCE/DOCKET NUMBER: A-451A
INFORMATION FOR SEQ ID NO: 39:
SEQUENCE CHARACTERISTICS:
LENGTH: 317 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-880-855-39

```

Query Match 100.0%; Score 1685; DB 12; Length 317;

Best Local Similarity 100.0%; Pred. No. 4.3e-152; Matches 317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

OY 1 MRRASRDYTKYLRGSEEMGGPGAPHEGPHLHAPPAPHPAPPAASRSMFVALLGLGLGV 60
DB 1 MRRASRDYTKYLRGSEEMGGPGAPHEGPHLHAPPAPHPAPPAASRSMFVALLGLGLGV 60
OY 61 VCSVALFFYFRAQMDPNRI SEDGTHCIYRILRLHENADFODTTLESODTKLIPDSCRRIK 120
DB 61 VCSVALFFYFRAQMDPNRI SEDGTHCIYRILRLHENADFODTTLESODTKLIPDSCRRIK 120
OY 121 QAFQAVOKELQIHIVGSOHIRAEKAMVDGSMIDLAKRSKLEAOPFAHLITINATDIPSGSH 180
DB 121 QAFQAVOKELQIHIVGSOHIRAEKAMVDGSMIDLAKRSKLEAOPFAHLITINATDIPSGSH 180
OY 181 KVSLSWYHRCMAKISNMFTFSGNGLIYNODGFYLLYANICFRHHETSGDLATEYLQLMV 240
DB 181 KVSLSWYHRCMAKISNMFTFSGNGLIYNODGFYLLYANICFRHHETSGDLATEYLQLMV 240
OY 241 VYTKTSIKIPSSHTLMKGGSTKYWGSNSEFHFYSINVGFFKLRSGEETISIEVSNPSLLD 300
DB 241 VYTKTSIKIPSSHTLMKGGSTKYWGSNSEFHFYSINVGFFKLRSGEETISIEVSNPSLLD 300
OY 301 PPODATYFGAFKVRDID 317
DB 301 PPODATYFGAFKVRDID 317

```


ORGANISM: Homo sapiens
US-09-442-029A-13

Query Match	100.0%;	Score 1685;	DB 18;	Length 317;
Best Local Similarity	100.0%;	Pred. No. 4.3e-152;		
Matches 317;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0

[illegible]

RESULT 10
 US-09-466-496-13
 : Sequence 13, Application US/09466496
 :
 GENERAL INFORMATION:
 :
 APPLICANT: Anderson, Dirk M.
 :
 Galibert, Laurent
 :
 Matasovsky, Eugene
 :
 TITLE OF INVENTION: Receptor Activator of NF-kappaB
 :
 NUMBER OF SEQUENCES: 19
 :
 CORRESPONDENCE ADDRESS:
 :
 ADDRESSEE: Immunex Corporation, Law Department
 :
 STREET: 51 University Street
 :
 CITY: Seattle
 :
 STATE: WA
 :
 COUNTRY: USA
 :
 ZIP: 98101
 :
 COMPUTER READABLE FORM:
 :
 MEDIUM TYPE: Floppy disk
 :
 COMPUTER: Apple Power Macintosh
 :
 OPERATING SYSTEM: Apple Operating System 7.5.5
 :
 SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
 :
 CURRENT APPLICATION DATA:
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 APPLICATION NUMBER: US/09/466,496
 :
 FILING DATE: 17-Dec-1999
 :
 CLASSIFICATION: <Unknown>
 :
 PRIOR APPLICATION DATA:
 :
 APPLICATION NUMBER: US/08/996,139
 :
 FILING DATE: 22 DECEMBER 1997
 :
 APPLICATION NUMBER: USSN 60/064,671
 :
 FILING DATE: 14 OCTOBER 1997
 :
 APPLICATION NUMBER: USSN 08/813,509
 :
 FILING DATE: 07 MARCH 1997
 :
 APPLICATION NUMBER: USSN 08/772,330
 :
 FILING DATE: 23 DECEMBER 1996
 :
 ATTORNEY/AGENT INFORMATION:
 :
 NAME: Perkins, Patricia Anne
 :
 REGISTRATION NUMBER: 34,693
 :
 REFERENCE/DOCKET NUMBER: 2851-A
 :
 TELECOMMUNICATION INFORMATION:
 :
 TELEPHONE: (206)587-0430
 :
 TELEFAX: (206)233-0644
 :

```

?      INFORMATION FOR SEQ ID NO: 13:
?      SEQUENCE CHARACTERISTICS:
?          LENGTH: 317 amino acids
?          TYPE: amino acid
?          TOPOLOGY: linear
?      MOLECULE TYPE: protein
?      SEQUENCE DESCRIPTION: SEQ ID NO: 13
US-09-466-496-13

```

Query Match	100.0%	Score 1685;	DB 18;	Length 317;
Best Local Similarity	100.0%	Pred. No. 4,3e-152;		
Matches 317; Conservative	0;	Mismatches	0;	Indels 0; Gaps 0;

Qy	1	MRARSDYTKTLRGSEEMGGGRCAPRHHGCPRLIAPPPAPRPHQPPAASBSMFALLGLGIGOV	60
Db	1	MRRASRDYTKTLRGSEEMGGGRCAPRHHGCPRLIAPPPAPRPHQPPAASBSMFALLGLGIGOV	60
Qy	61	VCSVALFFYFRAADMPNRISEDGTHCIYIRLIRLHENDFODTTLSEODTKLLPDSCRRIK	120
Db	61	VCSVALFFYFRAADMPNRISEDGTHCIYIRLIRLHENDFODTTLSEODTKLLPDSCRRIK	120
Qy	121	QAFQAGAVOKELQIHVGSQHIIRAEKAMVDGSLDLAKRSKLEAOPFALLTNATDIPSGSH	180
Db	121	QAFQAGAVOKELQIHVGSQHIIRAEKAMVDGSLDLAKRSKLEAOPFALLTNATDIPSGSH	180
Qy	181	KVSLSSVYHNDGMAKISMNTFSNCKLLVNOGCFYUULVANCIFRHHETSGSLATEYULQW	240
Db	181	KVSLSSVYHNDGMAKISMNTFSNCKLLVNOGCFYUULVANCIFRHHETSGSLATEYULQW	240
Qy	241	VYTKTSIKIPSSHTLTMKGSGTKYVSGNSEFIHPIYSIINVGGPFKLRSGEISIEVSNPSLLD	300
Db	241	VYTKTSIKIPSSHTLTMKGSGTKYVSGNSEFIHPIYSIINVGGPFKLRSGEISIEVSNPSLLD	300
Qy	301	PDQADTYFGAERKVRDID	317
Db	301	PDQADTYFGAERKVRDID	317

RESULT 11
 US-09-577-800-13
 ; Sequence 13, Application US/09577800
 ; GENERAL INFORMATION:
 APPLICANT: Anderson, Dirk M.
 APPLICANT: Galibert, Laurent
 APPLICANT: Matashevsky, Eugene
 TITLE OF INVENTION: Receptor Activator of NF-kappaB
 NUMBER OF SEQUENCES: 19
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Immunex Corporation, Law Department
 STREET: 51 University Street
 CITY: Seattle
 STATE: WA
 COUNTRY: USA
 ZIP: 98101
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: Apple Power Macintosh
 OPERATING SYSTEM: Apple Operating System 7.5.5
 SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/577, 800
 FILING DATE: 24-MAY-2000
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/996, 139
 FILING DATE: 22 DECEMBER 1997
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: USN 60/064,671
 FILING DATE: 14 OCTOBER 1997
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: USN 08/813,509
 FILING DATE: 07 MARCH 1997
 PRIOR APPLICATION DATA:

OPERATING SYSTEM: Apple Operating System 7.5.5
SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/688,459
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/995,659
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: USSN 08/813,509
FILING DATE: 07 MARCH 1997
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: USSN 08/772,330
FILING DATE: 23 DECEMBER 1996
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Perkins, Patricia Anne
REGISTRATION NUMBER: 34,693
REFERENCE/DOCKET NUMBER: 2852-A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206)587-0430
TELEFAX: (206)233-0644
INFORMATION FOR SEO ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 317 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-688-459-13

Query Match 100.0%; Score 1685; DB 20; Length 317;
Best Local Similarity 100.0%; Pred. No. 4.3e-152;
Matches 317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRRASRDYTKYLKRGSEMGCGPAPHEGRLHAPPPAPHPAPPAASRSMFVALLGLGLGV 60
DB 1 MRRASRDYTKYLKRGSEMGCGPAPHEGRLHAPPPAPHPAPPAASRSMFVALLGLGLGV 60
QY 61 VCSVALFFYFRAQMDPNRISEDTGHCYRILRLHENDFODTTLSEODTKLIPDSCRRIK 120
DB 61 VCSVALFFYFRAQMDPNRISEDTGHCYRILRLHENDFODTTLSEODTKLIPDSCRRIK 120
QY 121 QAFQAVOKELQHVSGSHIRAEKAMVDGSMWDLAKRSKLEAOPFAHLTINATDIPSGSH 180
DB 121 QAFQAVOKELQHVSGSHIRAEKAMVDGSMWDLAKRSKLEAOPFAHLTINATDIPSGSH 180
QY 181 KVSLSWYHRCMAKISNMFTSNGKLIYNQDGFYLLANICFRHHETSGDLATEYLQLMV 240
DB 181 KVSLSWYHRCMAKISNMFTSNGKLIYNQDGFYLLANICFRHHETSGDLATEYLQLMV 240
QY 241 VYTKTSIKIPSSHTLMKGGSTKYWGNSEPHFYISINVGCFPKLRSEGISIEVSNPSLLD 300
DB 241 VYTKTSIKIPSSHTLMKGGSTKYWGNSEPHFYISINVGCFPKLRSEGISIEVSNPSLLD 300
QY 301 PDDATYFGAFKVRDID 317
DB 301 PDDATYFGAFKVRDID 317

RESULT 14
US-09-705-985-8
Sequence 8, Application US/09705985
GENERAL INFORMATION:
APPLICANT: ANDERSON, Dirk, M.
APPLICANT: GALIBERT, Laurent, J.
TITLE OF INVENTION: METHOD OF INHIBITING OSTEOCLAST ACTIVITY
FILE REFERENCE: 2874-B
CURRENT APPLICATION NUMBER: US/09/705,985
CURRENT FILING DATE: 2000-11-03
PRIOR APPLICATION NUMBER: PCT/US99/10588

PRIOR FILING DATE: 1999-05-13
PRIOR APPLICATION NUMBER: 60/085,487
PRIOR FILING DATE: 1998-05-14
PRIOR APPLICATION NUMBER: 60/110,836
PRIOR FILING DATE: 1998-12-03
PRIOR APPLICATION NUMBER: 08/996,139
PRIOR FILING DATE: 1997-12-22
PRIOR APPLICATION NUMBER: 60/064,671
PRIOR FILING DATE: 1997-10-14
PRIOR APPLICATION NUMBER: 60/077,181
PRIOR FILING DATE: 1997-03-07
PRIOR APPLICATION NUMBER: 60/059,978
PRIOR FILING DATE: 1996-12-23
NUMBER OF SEO ID NOS: 8
SOFTWARE: PatentIn version 3.1
SEO ID NO 8
LENGTH: 317
TYPE: PRT
ORGANISM: Homo sapiens;
US-09-705-985-8

Query Match 100.0%; Score 1685; DB 21; Length 317;
Best Local Similarity 100.0%; Pred. No. 4.3e-152;
Matches 317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRRASRDYTKYLKRGSEMGCGPAPHEGRLHAPPPAPHPAPPAASRSMFVALLGLGLGV 60
DB 1 MRRASRDYTKYLKRGSEMGCGPAPHEGRLHAPPPAPHPAPPAASRSMFVALLGLGLGV 60
QY 61 VCSVALFFYFRAQMDPNRISEDTGHCYRILRLHENDFODTTLSEODTKLIPDSCRRIK 120
DB 61 VCSVALFFYFRAQMDPNRISEDTGHCYRILRLHENDFODTTLSEODTKLIPDSCRRIK 120
QY 121 QAFQAVOKELQHVSGSHIRAEKAMVDGSMWDLAKRSKLEAOPFAHLTINATDIPSGSH 180
DB 121 QAFQAVOKELQHVSGSHIRAEKAMVDGSMWDLAKRSKLEAOPFAHLTINATDIPSGSH 180
QY 181 KVSLSWYHRCMAKISNMFTSNGKLIYNQDGFYLLANICFRHHETSGDLATEYLQLMV 240
DB 181 KVSLSWYHRCMAKISNMFTSNGKLIYNQDGFYLLANICFRHHETSGDLATEYLQLMV 240
QY 241 VYTKTSIKIPSSHTLMKGGSTKYWGNSEPHFYISINVGCFPKLRSEGISIEVSNPSLLD 300
DB 241 VYTKTSIKIPSSHTLMKGGSTKYWGNSEPHFYISINVGCFPKLRSEGISIEVSNPSLLD 300
QY 301 PDDATYFGAFKVRDID 317
DB 301 PDDATYFGAFKVRDID 317

RESULT 15
US-09-787-126-2
Sequence 2, Application US/09787126
GENERAL INFORMATION:
APPLICANT: M&E Biotech A/S
APPLICANT: HALKIER, Torben
APPLICANT: HANING, Jesper
TITLE OF INVENTION: Method for Down-Regulating Osteoprotegerin Ligand
FILE REFERENCE: 3631-0108P
CURRENT APPLICATION NUMBER: US/09/787,126
CURRENT FILING DATE: 2001-10-09
NUMBER OF SEO ID NOS: 36
SOFTWARE: PatentIn Ver. 2.1
SEO ID NO 2
LENGTH: 317
TYPE: PRT
ORGANISM: Homo sapiens
US-09-787-126-2

Query Match 100.0%; Score 1685; DB 21; Length 317;
Best Local Similarity 100.0%; Pred. No. 4.3e-152;
Matches 317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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OY 1 MRRASRDYTKYLRGSEEMGGGAPHEGPLIAPPAPPHOPPAASRSMFVALLGLGLOV 60
Db 1 MRRASRDYTKYLRGSEEMGGGAPHEGPLIAPPAPPHOPPAASRSMFVALLGLGLOV 60.
OY 61 VCSVALFFYFRQMDPNRISSEDTHTCIRILRLHENADFOPTTLESODTKLIPDSCRRIK 120
Db 61 VCSVALFFYFRQMDPNRISSEDTHTCIRILRLHENADFOPTTLESODTKLIPDSCRRIK 120
OY 121 QAFQAVOKELQHIIVGSOHIRAEKAMVDGSWLDLAKRSKLEAQPFAPHL7INATDIPSGSH 180
Db 121 QAFQAVOKELQHIIVGSOHIRAEKAMVDGSWLDLAKRSKLEAQPFAPHL7INATDIPSGSH 180
OY 181 KVSLSMWHDRGMAKISNMTFSNGKLIYNQDGFYLYANICFRHHETSGDLATEYLQLMV 240
Db 181 KVSLSMWHDRGMAKISNMTFSNGKLIYNQDGFYLYANICFRHHETSGDLATEYLQLMV 240
OY 241 VYTKTSIKIPSSHTLMMKGGSTKYWGSNSFFHFYSINVGCFPKLRSGEISIEVSNPSLLD 300
Db 241 VYTKTSIKIPSSHTLMMKGGSTKYWGSNSFFHFYSINVGCFPKLRSGEISIEVSNPSLLD 300
OY 301 PDQDATYFGAFKVRDID 317
Db 301 PDQDATYFGAFKVRDID 317

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Search completed: March 13, 2003, 18:30:48
 Job time : 147.308 secs